

FFFFFFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFFFFFF	111	111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111111	111111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFFFFFFFFFFF FFF	111	111	XXX	XXX
FFFFFFFFFFFFFFFF	111	111	XXX	XXX
FFFFFFFFFFFFFFFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	111	111	XXX	XXX
FFF	1111111111	1111111111	XXX	XXX
FFF	1111111111	1111111111	XXX	XXX
FFF	1111111111	1111111111	XXX	XXX

```
SSSSSSSS NN NN DDDDDDDD EEEEEEEEE RRRRRRR LL
SSSSSSSS NN NN DDDDDDDD EEEEEEEEE RRRRRRR LL
SS NN NN NN DD DD EE RR RR LL
SS NN NN NN DD DD EE RR RR LL
SSSSSS NN NN DD DD EEEEEEE RRRRRRR LL
SSSSSS NN NN DD DD EEEEEEE RRRRRRR LL
SS NN NN NN DD DD EE RR RR LL
SS NN NN NN DD DD EE RR RR LL
SS NN NN NN DD DD EE RR RR LL
SSSSSS NN NN DDDDDDDD EEEEEEEEE RRRRRRR LL
SSSSSS NN NN DDDDDDDD EEEEEEEEE RRRRRRR LL
LL
```

```
LL IIIIII SSSSSSSS
LL IIIIII SSSSSSSS
LL II
LL II
LL II
LL II
LL II
LL II
LL II
LL II
LL II
LL IIIIII SSSSSSSS
LL IIIIII SSSSSSSS
SS
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SS
SS
SSSSSS
SSSSSS
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SS
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SS
```



```
1 0001 0 MODULE SN DERL (
2 0002 0
3 0003 0 LANGUAGE (BLISS32),
4 0004 0 IDENT = 'V04-000'
5 0005 1 ) =
6 0006 1 BEGIN
7 0007 1
8 0008 1 *****
9 0009 1 *
10 0010 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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26 0026 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
27 0027 1 *
28 0028 1 *
29 0029 1 *****
30 0030 1
31 0031 1 ++
32 0032 1
33 0033 1 FACILITY: F11ACP Structure Level 1
34 0034 1
35 0035 1 ABSTRACT:
36 0036 1
37 0037 1 This routine sends a message to the error logger to inform it of a
38 0038 1 volume mount or dismount.
39 0039 1
40 0040 1 ENVIRONMENT:
41 0041 1
42 0042 1 STARLET operating system, including privileged system services
43 0043 1 and internal exec routines.
44 0044 1
45 0045 1 --
46 0046 1
47 0047 1
48 0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 23-Jun-1978 18:47
49 0049 1
50 0050 1 MODIFIED BY:
51 0051 1
52 0052 1 V03-001 LMP0221 L. Mark Pilant, 27-Mar-1984 14:46
53 0053 1 Change UCBSL_OWNUIC to ORBSL_OWNER and UCB$W_VPROT to
54 0054 1 ORBSW_PROT.
55 0055 1
56 0056 1 A0101 ACG0113 Andrew C. Goldstein, 15-Jan-1980 22:58
57 0057 1 Fill in volume set data in error log message
```

SNDRL
V04-000

1 8
16-Sep-1984 01:16:43
14-Sep-1984 12:30:48

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[F11X.SRC]SNDRL.B32;1 Page (1) 2

```

: 58
: 59
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: 65
: 66
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: 69
: 70
: 71

0058 1 !
0059 1 !
0060 1 ! A0100 ACG00001 Andrew C. Goldstein, 10-Oct-1978 20:03
0061 1 ! ** Previous revision history moved to F11A.REV
0062 1 !
0063 1 !
0064 1 LIBRARY 'SYSS$LIBRARY:LIB.L32';
0065 1 REQUIRE 'SRC$:FCPDEF.B32';
1056 1 !
1057 1 !
1058 1 ! This routine is called at raised IPL and must be locked into the working set.
1059 1 !
1060 1 !
1061 1 LOCK_CODE;
```



```

1062 1 GLOBAL ROUTINE SEND_ERRLOG (MODE, UCB) =
1063 1
1064 1 ++
1065 1
1066 1 FUNCTIONAL DESCRIPTION:
1067 1
1068 1     This routine sends a message to the error logger to inform it of a
1069 1     volume mount or dismount.
1070 1
1071 1
1072 1 CALLING SEQUENCE:
1073 1     SEND_ERRLOG (ARG1, ARG2)
1074 1
1075 1 INPUT PARAMETERS:
1076 1     ARG1: 1 to signal mount
1077 1           0 to signal dismount
1078 1     ARG3: address of UCB
1079 1
1080 1 IMPLICIT INPUTS:
1081 1     NONE
1082 1
1083 1 OUTPUT PARAMETERS:
1084 1     NONE
1085 1
1086 1 IMPLICIT OUTPUTS:
1087 1     NONE
1088 1
1089 1 ROUTINE VALUE:
1090 1     1
1091 1
1092 1 SIDE EFFECTS:
1093 1     Message sent to error logger
1094 1
1095 1 --
1096 1
1097 2 BEGIN
1098 2
1099 2 MAP
1100 2     UCB          : REF BBLOCK;    ! UCB argument
1101 2
1102 2 LINKAGE
1103 2     L_ERL_ALLOC  = JSB (REGISTER = 1) :
1104 2                   GLOBAL (ADDRESS = 2)
1105 2                   NOTUSED (3, 4, 5, 6, 7, 8, 9, 10, 11),
1106 2
1107 2     L_ERL_RELEASE = JSB (REGISTER = 2) :
1108 2                   NOTUSED (3, 4, 5, 6, 7, 8, 9, 10, 11);
1109 2
1110 2 LOCAL
1111 2     ORB          : REF BBLOCK,    ! local address of ORB
1112 2     MSG_BUFFER   : REF BBLOCK;    ! other buffer pointer to dodge MOVC
1113 2
1114 2 EXTERNAL ROUTINE
1115 2     ERL$ALLOCMB  : L_ERL_ALLOC ADDRESSING_MODE (GENERAL),
1116 2                   ! allocate error log buffer
1117 2     ERL$RELEASEMB : L_ERL_RELEASE ADDRESSING_MODE (GENERAL);
1118 2                   ! release error log buffer
1119 2
1120 2
1121 2
1122 2
1123 2
1124 2
1125 2
1126 2
1127 2
1128 2
1129 2

```

```
130 1119 2
131 1120 2
132 1121 2 ! Allocate an error log buffer. If this fails, forget it.
133 1122 2 !
134 1123 2
135 1124 2 BEGIN
136 1125 2 GLOBAL REGISTER
137 1126 2 ADDRESS = 2 : REF BBLOCK; ! pointer to error log buffer
138 1127 2
139 1128 2 IF NOT ERL$ALLOCEMB (EMBSK_VM_LENGTH)
140 1129 2 THEN RETURN 1;
141 1130 2 MSG_BUFFER = .ADDRESS;
142 1131 2 END;
143 1132 2
144 1133 2 ! Now fill in the message buffer.
145 1134 2 !
146 1135 2
147 1136 2 IF .MODE
148 1137 2 THEN MSG_BUFFER[EMBSW_VM_ENTRY] = EMBSK_VM
149 1138 2 ELSE MSG_BUFFER[EMBSW_VM_ENTRY] = EMBSK_VD; ! log entry type
150 1139 2
151 1140 2 ORB = .UCB[UCBSL_ORB];
152 1141 2 MSG_BUFFER[EMBSL_VM_OWNUIC] = .ORB[ORB$OWNER];
153 1142 2 MSG_BUFFER[EMBSL_VM_ERRCNT] = .UCB[UCBSW_ERRCNT];
154 1143 2 MSG_BUFFER[EMBSL_VM_OPRCNT] = .UCB[UCBSL_OPCNT];
155 1144 2 MSG_BUFFER[EMBSW_VM_UNIT] = .UCB[UCBSW_UNIT];
156 1145 2
157 1146 2 MSG_BUFFER[EMBSW_VM_VOLNUM] = 0;
158 1147 2 MSG_BUFFER[EMBSW_VM_NUMSET] = 0;
159 1148 2
160 1149 2 CH$MOVE (. (BBLOCK [.UCB[UCBSL_DDB], DDB$NAME]) <0,8> + 1,
161 1150 2 BBLOCK [.UCB[UCBSL_DDB], DDB$NAME],
162 1151 2 MSG_BUFFER[EMBSB_VM_NAMLNG]);
163 1152 2
164 1153 2 IF .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_FOR]
165 1154 2 OR NOT .BBLOCK[UCB[UCBSL_DEVCHAR], DEV$V_SQD]
166 1155 2 THEN
167 1156 2 BEGIN
168 1157 2 LOCAL
169 1158 2 VCB : REF BBLOCK, ! address of volume control block
170 1159 2 RVT : REF BBLOCK; ! address of relative volume table
171 1160 2
172 1161 2 VCB = .UCB[UCBSL_VCB];
173 1162 2 IF .VCB[VCBSW_RVN] NEQ 0
174 1163 2 THEN
175 1164 2 BEGIN
176 1165 2 RVT = .VCB[VCBSL_RVT];
177 1166 2 MSG_BUFFER[EMBSW_VM_VOLNUM] = .VCB[VCBSW_RVN];
178 1167 2 MSG_BUFFER[EMBSW_VM_NUMSET] = .RVT[RVT$B_NVOLS];
179 1168 2 END;
180 1169 2 CH$MOVE (VCB$S_VOLNAME,
181 1170 2 BBLOCK [.UCB[UCBSL_VCB], VCB$S_VOLNAME],
182 1171 2 MSG_BUFFER[EMBSB_VM_LABEL]);
183 1172 2 END
184 1173 2 ELSE
185 1174 2 BEGIN
186 1175 2 LOCAL
```



```

: 187      1176      3      MVL          : REF BBLOCK,      : magtape volume labels
: 188      1177      3      MVL_ENTRY      : REF BBLOCK,      : address of label entry
: 189      1178      3      RUN,              : relative unit number
: 190      1179      3      RVT              : REF BBLOCK,      : relative volume table
: 191      1180      3      UCBLIST          : REF VECTOR,      : address of UCB list
: 192      1181      3      VCB              : REF BBLOCK;      : volume control block
: 193      1182      3      VCB = .UCB[UCB$L_VCB];
: 194      1183      3      RVT = .VCB[VCB$L_RVT];
: 195      1184      3      UCBLIST = RVT[RVT$L_UCBLST];
: 196      1185      3      MVL = .VCB[VCB$L_MVL];
: 197      1186      3      MSG_BUFFER[EMB$W_VM_NUMSET] = .MVL[MVL$B_NVOLS];      : no of volumes in vol set known
: 198      1187      3      CH$FILL(' ',VCB$S_VOLNAME,MSG_BUFFER[EMB$T_VM_LABEL]);
: 199      1188      3      INCR I FROM 0 TO .RVT[RVT$B_NVOLS] - 1 DO
: 200      1189      4      BEGIN
: 201      1190      4      RUN = .I;
: 202      1191      4      IF .UCBLIST[I] EQL .UCB THEN EXITLOOP;
: 203      1192      3      END;
: 204      1193      3      MVL_ENTRY = .MVL + MVL$K_FIXLEN;
: 205      1194      3      INCR I FROM 0 TO .MVL[MV$B_NVOLS] - 1 DO
: 206      1195      4      BEGIN
: 207      1196      4      IF .MVL_ENTRY[MVL$B_RVN] EQL .RUN
: 208      1197      4      AND .MVL_ENTRY[MVL$B_MOUNTED]
: 209      1198      4      THEN
: 210      1199      5      BEGIN
: 211      1200      5      MSG_BUFFER[EMB$W_VM_VOLNUM] = .I + 1;
: 212      1201      5      CH$COPY(MVL$S_VO[LBC],MVL_ENTRY[MVL$T_VOLLBL],' ',
: 213      1202      5      VCB$S_VOLNAME,MSG_BUFFER[EMB$T_VM_LABEL]);
: 214      1203      5      EXITLOOP;
: 215      1204      4      END;
: 216      1205      4      MVL_ENTRY = .MVL_ENTRY + MVL$K_LENGTH;
: 217      1206      3      END;
: 218      1207      2      END;
: 219      1208      2
: 220      1209      2      ! Finally release the buffer and make the entry.
: 221      1210      2      !
: 222      1211      2
: 223      1212      2      ERL$RELEASEMB (.MSG_BUFFER);
: 224      1213      2
: 225      1214      2      RETURN 1;
: 226      1215      2
: 227      1216      1      END;

```

! end of routine SEND_ERRLOG

```

.TITLE  SNDRL
.IDENT  \V04-000\

.EXTRN  ERL$ALLOCMB, ERL$RELEASEMB

.PSECT  $LOCKEDC1$,NOWRT,2

.ENTRY  SEND_ERRLOG, Save R2,R3,R4,R5,R6,R7,R8,R9,- ; 1062
        R10
        #62, R1 ; 1128
        JSB  ERL$ALLOCMB
        BLBS R0, 1$
        BRW  14$
        MOVL ADDRESS, MSG_BUFFER ; 1130

```

```

07FC 00000
51      00000000G 3E DO 00002
03      50 E8 0000B
00F4 31 0000E
59      52 DO 00011 1$:

```

			04	07	04	AC	E9	00014	BLBC	MODE, 2\$	1136
		04	A9	40	8F	9B	00018		MOVZBW	#64, 4(MSG_BUFFER)	1137
					05	11	0001D		BRB	3\$	
		04	A9	41	8F	9B	0001F	2\$:	MOVZBW	#65, 4(MSG_BUFFER)	1138
			50	08	AC	D0	00024	3\$:	MOVL	UCB, R0	1140
			50	1C	A0	D0	00028		MOVL	28(R0), ORB	
		10	A9		60	D0	0002C		MOVL	(ORB), 16(MSG_BUFFER)	1141
			50	08	AC	D0	00030		MOVL	UCB, R0	1142
		14	A9	0082	C0	3C	00034		MOVZWL	130(R0), 20(MSG_BUFFER)	
			50	08	AC	D0	0003A		MOVL	UCB, R0	1143
		18	A9	70	A0	D0	0003E		MOVL	112(R0), 24(MSG_BUFFER)	
			50	08	AC	D0	00043		MOVL	UCB, R0	1144
		1C	A9	54	A0	B0	00047		MOVW	84(R0), 28(MSG_BUFFER)	
				2E	A9	D4	0004C		CLRL	46(MSG_BUFFER)	1146
			50	08	AC	D0	0004F		MOVL	UCB, R0	1149
			50	28	A0	D0	00053		MOVL	40(R0), R0	
			51	14	A0	9A	00057		MOVZBL	20(R0), R1	
					51	D6	0005B		INCL	R1	
1E	A9	14	A0		51	28	0005D		MOVC3	R1, 20(R0), 30(MSG_BUFFER)	1151
			51	08	AC	D0	00063		MOVL	UCB, R1	1161
			50	08	AC	D0	00067		MOVL	UCB, R0	1153
	27	38	05	3B	A0	E8	0006B		BLBS	59(R0), 4\$	
			A0		05	E0	0006F		BBS	#5, 56(R0), 6\$	1154
			50	34	A1	D0	00074	4\$:	MOVL	52(R1), VCB	1161
				0E	A0	B5	00078		TSTW	14(VCB)	1162
					0E	13	0007B		BEQL	5\$	
			51	20	A0	D0	0007D		MOVL	32(VCB), RVT	1165
		2E	A9	0E	A0	B0	00081		MOVW	14(VCB), 46(MSG_BUFFER)	1166
		30	A9	0B	A1	9B	00086		MOVZBW	11(RVT), 48(MSG_BUFFER)	1167
			50	08	AC	D0	0008B	5\$:	MOVL	UCB, R0	1170
			50	34	A0	D0	0008F		MOVL	52(R0), R0	
32	A9	14	A0		0C	28	00093		MOVC3	#12, 20(R0), 50(MSG_BUFFER)	1171
					61	11	00099		BRB	13\$	1153
			50	34	A1	D0	0009B	6\$:	MOVL	52(R1), VCB	1182
			56	20	A0	D0	0009F		MOVL	32(VCB), RVT	1183
			58	44	A6	9E	000A3		MOVAB	68(R6), UCBLIST	1184
			57	34	A0	D0	000A7		MOVL	52(VCB), MVL	1185
		30	A9	0B	A7	9B	000AB		MOVZBW	11(MVL), 48(MSG_BUFFER)	1186
0C		20	6E		00	2C	000B0		MOVC5	#0, (SP), #32, #12, 50(MSG_BUFFER)	1187
				32	A9		000B5				
			51	0B	A6	9A	000B7		MOVZBL	11(RVT), R1	1188
			50		01	CE	000BB		MNEGL	#1, I	1191
					0A	11	000BE		BRB	8\$	
			5A		50	D0	000C0	7\$:	MOVL	I, RUN	1190
		08	AC		6840	D1	000C3		CMPL	(UCBLIST)[I], UCB	1191
					04	13	000C8		BEQL	9\$	
			50		51	F2	000CA	8\$:	AOBLSS	R1, I, 7\$	1188
			58	24	A7	9E	000CE	9\$:	MOVAB	36(R7), MVL_ENTRY	1193
			57	0B	A7	9A	000D2		MOVZBL	11(MVL), R7	1194
			56		01	CE	000D6		MNEGL	#1, I	
					1D	11	000D9		BRB	12\$	
5A	06	A8	08		00	ED	000DB	10\$:	CMPZV	#0, #8, 6(MVL_ENTRY), RUN	1196
					12	12	000E1		BNEQ	11\$	
			0E	07	A8	E9	000E3		BLBC	7(MVL_ENTRY), 11\$	1197
			56		01	A1	000E7		ADDW3	#1, I, 46(MSG_BUFFER)	1200
0C	2E	A9	68		06	2C	000EC		MOVC5	#6, (MVL_ENTRY), #32, #12, 50(MSG_BUFFER)	1202
				32	A9		000F1				

SNDRERL
V04-000

N 8
16-Sep-1984 01:16:43
14-Sep-1984 12:30:48

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[F11X.SRC]SNDRERL.B32;1

Page 7
(2)

DF

58
56
52
50 00000000G

07 11 000F3
08 C0 000F5 11\$:
57 F2 000F8 12\$:
59 D0 000FC 13\$:
00 16 000FF
01 D0 00105 14\$:
04 00108

BRB 13\$
ADDL2 #8, MVL ENTRY
AOBLSS R7, 1, T0\$
MOVL MSG BUFFER, R2
JSB ERL\$RELEASEMB
MOVL #1, R0
RET

: 1199
: 1205
: 1194
: 1212
: 1214
: 1216

; Routine Size: 265 bytes, Routine Base: \$LOCKEDC1\$ + 0000

: 228 1217 1
: 229 1218 1 END
: 230 1219 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
\$LOCKEDC1\$	265	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	54	0	1000	00:02.0

COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:SNDRERL/OBJ=OBJ\$:SNDRERL MSRC\$:SNDRERL/UPDATE=(ENH\$:SNDRERL)

; Size: 265 code + 0 data bytes
; Run Time: 00:12.6
; Elapsed Time: 00:25.5
; Lines/CPU Min: 795
; Lexemes/CPU-Min: 26396
; Memory Used: 178 pages
; Compilation Complete

0173 AH-BT13A-SE
VAX/VMS V4.0

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MAP

SELVOL
LIS

DAPDEF
MOL

SMALOC
LIS

SNOBAD
LIS

SWITUL
LIS

WITURN
LIS